Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910. 1200. Standard must be
consulted for specific requirements.

U. S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No.1218-0072

IDENTITY (As Used on Label and List) Manganese Dioxide Lithium Battery (CR1616)	Note: Blank spaces are not permitted. If any item is not applicable. or no information is available. the space must be marked to indicate that.

Section Ⅰ

Manufacture's Name TOSHIBA BATTERY CO.,LTD.	Emergency Telephone Number
Address (Number. Street. City. State. and ZIP Code)	Telephone Number for Information
4-10. MINAMI-SHINAGAWA 3-CHOME,	Date Prepared 17-February-2005
SHINAGAWA-KU, TOKYO 140-0004, JAPAN	Signature of Prepare (optional)

Section Ⅱ -Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Components firmly sealed within stainless-steel shell.				
1) Manganese Dioxide		24wt%		
2) Lithium Metal		2wt%		
3) Non aqueous Electrolyte		4wt%		
	Battery Weight	1.1g / Cell		

Section Ⅲ- Physical / Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O=1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		

Appearance and Odor
* Coin - Shaped, Odorless.

Section Ⅳ- Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	LEL N/A	UEL N/A

Extinguishing Media
N/A

Special Fire Fighting Procedures
Use of self-contained Breathing Apparatus and proper personal protective equipment is recommended.

Unusual Fire and Explosion Hazards
When exposed to excessive heat cells may rupture and burn.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid N/A
	Stable	×	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur	N/A	Conditions to Avoid N/A
	Will Not Occur	N/A	

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?

Health Hazards (Acute and Chronic)
N/A

Carcinogenicity:	NTP? N/A	IARC Monographs?	OSHA Regulated?

Signs and Symptoms of Exposure
N/A

Medical Conditions Generally Aggravated by Exposure
N/A

Emergency and First Aid Procedures
N/A

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

When accumulating large quantities of undercharged batteries for disposal, park in a non-conductive insulating material.

Waste Disposal Method

When discharged, the Wisconsin department of national resources has declared this type of Lithium cell Non-hazardous. Dispose of according to appropriate local, state and federal waste regulations.

Precautions to Be Taken in Handling and Storing

Don't store unpacked batteries together. This situation will result in cell shorting and heat build-up.

Store under normal temperature and dry conditions.

Other Precautions

None under Normal use.

Section VIII - Control Measures

Respiratory Protection (Specify Type)
N/A

Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves None	Eye Protection N/A

Other Protective Clothing Equipment
N/A

Work/Hygienic Practices
N/A